#include <stdio.h>

#include <stdlib.h>

#include <fcntl.h>

#include <unistd.h>

#include <sys/types.h>

#include <sys/stat.h>

#define BUFFER\_SIZE 1024

int main(int argc, char \*argv[]) {

if (argc != 3) {

fprintf(stderr, "Usage: %s <source\_file> <destination\_file>\n", argv[0]);

exit(EXIT\_FAILURE);

}

int source\_fd = open(argv[1], O\_RDONLY);

if (source\_fd < 0) {

perror("Error opening source file");

exit(EXIT\_FAILURE);

}

int dest\_fd = open(argv[2], O\_WRONLY | O\_CREAT | O\_TRUNC, S\_IRUSR | S\_IWUSR | S\_IRGRP | S\_IWGRP | S\_IROTH);

if (dest\_fd < 0) {

perror("Error opening destination file");

close(source\_fd);

exit(EXIT\_FAILURE);

}

char buffer[BUFFER\_SIZE];

ssize\_t bytes\_read, bytes\_written;

while ((bytes\_read = read(source\_fd, buffer, BUFFER\_SIZE)) > 0) {

bytes\_written = write(dest\_fd, buffer, bytes\_read);

if (bytes\_written < 0) {

perror("Error writing to destination file");

close(source\_fd);

close(dest\_fd);

exit(EXIT\_FAILURE);

}

}

if (bytes\_read < 0) {

perror("Error reading from source file");

}

close(source\_fd);

close(dest\_fd);

printf("File copied successfully from %s to %s\n", argv[1], argv[2]);

return 0;

}

Input and output:

